No. 8100024

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Rogers Delinted Cottonseed Co.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT . 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Rogers LG 102'

U.S. PLANT VARIETY PROTECTION OFFICE · U.S. DEPARTMENT OF AGRICULTURE

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 24th *day of* September *in the year of our Lord one thousand nine hundred and* eighty-one.

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R Block

Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

FORM APPROVED
OMB NO. 40-R3822

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
RDC 102	Rogers LG 102	PV NUMBER 8100024
2. KIND NAME: Cotton	3. GENUS AND SPECIES NAME: Gossypium hirsutum	FILING DATE: 11/18/80 — TIME: 11:00 (A.M.) P.M.
4. FAMILY NAME (BOTANICAL): Malvaceae	5. DATE OF DETERMINATION: September 1977	FEE RECEIVED: $ 500.00 / $ 250.00 — DATE: 11/18/80 / 8/26/81

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Rogers Delinted Cottonseed Co.	625 Peach St. Waco, Texas, 76704	817 752 0328

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
Corporation	Texas	July 1, 1949

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:

Dr. E. N. Stiver
Rogers Delinted Cottonseed Co.
Box 1340
Waco, Texas 76703

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement.
- [X] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [ ] 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [ ] YES [X] NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
[ ] YES [ ] NO	[ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? [ ] YES [XX] NO *(If "Yes," give name of countries and dates.)*

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? [ ] YES [XX] NO *(If "Yes," give name of countries and dates.)*

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? [XX] YES [ ] NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

November 17, 1980
(DATE)

Edward N. Stiver
(SIGNATURE OF APPLICANT)
Edward N. Stiver

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(DATE)

(SIGNATURE OF APPLICANT)

FORM GR-470 (1-78)

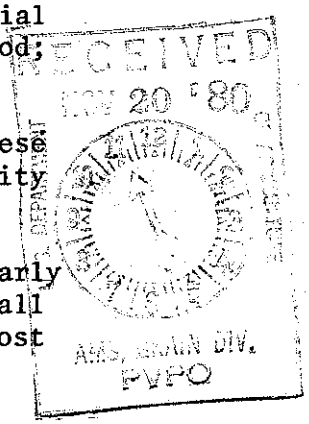
INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee ($250 filing fee and $250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.



13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

ROGERS DELINTED COTTONSEED CO. 8100024
Waco, Texas

EXHIBIT A: ORIGIN & BREEDING HISTORY OF THE VARIETY

Rogers LG 102 resulted from crosses involving the following parental lines. All lines were glandless, and CA 1786 was nectariless.

G5- From the Lyman family of Dr. L. S. Bird, College Station, Tx.
G6- Sister line
CA 1786- Breeding line from Dr. Levon Ray, TAES, Lubbock, Texas
Rogers LG 10-Variety of Rogers Delinted Cottonseed Co., Waco, Texas

CA 1786 was used as the pollen line and crossed onto G5.
selections from the
G6 was used as pollinater in a cross on 1786 X G5 and ~~identified as RDC2~~ E.M.S.
progeny were identified as RDC2

Rogers LG 10 was used as pollinater to cross onto RDC2

The process may be shown by the following diagrams:

$$\text{Rogers LG 102} \quad \frac{\text{Rogers LG 10}}{\text{RDC 2}}$$

$$\text{Where RDC2} \quad \frac{\text{G6}}{\text{CA 1786 X G5}}$$

The final cross was made in Rogers Delinted Cottonseed Co. greenhouse during the winter of 1972-73. The cross was grown in the field near Waco, Texas, in the summer of 1973, and individual plants selected for greenhouse increase during the winter, and progeny row evaluation during the summer through the summer of 1976. All the winter grown seed were selected by the "cold selection" procedure developed by Dr. L. S. Bird of Texas A & M.

In September of 1976, two progeny rows were selected and bulked to form the strain identified as RDC 102.

The strain was tested in the Rio Grande Valley, Coastal Bend, Central Texas Blacklands, Rolling Plains and High Plains of Texas during the years of 1977, 1978 and 1979. Concurrently, seed increase blocks were grown and rogued near Waco, Texas. A small seed increase block was grown in Haskell County near Rule, Texas in 1978, and larger blocks in Mitchell and Hockley Counties during 1979.

EXHIBIT A:

No variants have been observed.

EXHIBIT B: NOVELTY STATEMENT

The objective description of Rogers LG-102 shows the variety to be a compact, early maturing cotton that is both glandless and nectariless. It most closely resembles Lambright GL-N, which is the one other cotton variety known that is both glandless and nectariless.

LG-102 differs from Lambright GL-N in that LG-102 is classified as smooth leaf compared to Pubescent, has short fruiting branches compared to normal and is light green in color compared to dark green. The staple length of LG-102 is also shorter than that of Lambright GL-N, being 1.01 compared to 1.06.

The information on GL-N was obtained from the report given by Dr. Higgins at the Beltwide Cotton Conference in St. Louis on January 6-10th, 1980.

The years of testing have confirmed that LG-102 is a stable variety. A low level of off-type plants that are attributed to field crossing have been removed. Since LG-102 is both glandless and nectariless, these off-types are easily identified by checking the growing plants for gossypol glands and extrafloral nectaries.

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8 (10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

COTTON (*GOSSYPIUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)

Rogers Delinted Cottonseed Co.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)

625 Peach St.
Waco, Texas 76704

FOR OFFICIAL USE ONLY

PVPO NUMBER 8100024

VARIETY NAME OR TEMPORARY DESIGNATION

Rogers LG-102

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. SPECIES:

[1] 1 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

[0] EASTERN [0] DELTA [2] CENTRAL [2] HIGH PLAINS [0] EL PASO AREA

[0] WESTERN LOW HOT VALLEYS [0] SAN JOAQUIN [ ] OTHER (*Specify*) _____

3. MATURITY (50% Open Boll):

[1.5] NO. OF DAYS *EARLIER* THAN ..... [8]

[ ] NO. OF DAYS *LATER* THAN ..... [ ]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (*Specify*) C & P 3774

4. PLANT HABIT:

[3] 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT

[1] 1 = FOLIAGE SPARSE 2 = DENSE 3 = OTHER (*Specify*) _____

5. PLANT HEIGHT:

[14] CM. *SHORTER* THAN ..... [8]

[ ] CM. *TALLER* THAN ..... [ ]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (*Specify*) GP 3774

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT

10.6
[10.6] CM. TO FIRST FRUITING BRANCH

[5.3] NO. OF NODES TO FIRST FRUITING BRANCH (*from cotyledonary node*)

7. LEAF:

[13] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[2] 1 = GLABROUS (HAIRS AS SPARSE AS D_2 SMOOTH) 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213) 4 = HEAVY PUBESCENCE (H_1 OR H_2) 5 = OTHER (*Specify*) _____

9. LEAF COLOR:

[2] 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (*Acala-442*) 4 = RED 5 = OTHER (*Specify*) _____

10. LEAF TYPE:

[1] 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (*Specify*) _____

11. FLOWER:

[1] 1 = NECTARILESS 2 = NECTARIED

[1] Petals: 1 = CREAM 2 = YELLOW [1] Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

[2] 1 = CLUSTER 2 = SHORT 3 = NORMAL [1] 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

[1] 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS 4 = OTHER (*Specify*) _____

[ ] 1 = NORMAL BUD GOSSYPOL 2 = HIGH BUD GOSSYPOL

14. SEEDS:

[10.0] ± [0.7] SEED INDEX (*Fuzzy seed basis*)

[1] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL 16) 3 = HEAVY (ACALA SJ-1) 4 = OTHER (*Specify*) _____

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8100024

FORM GR-470-8 (REVERSE)

15. BOLLS:

[2] Locules: 1 = 3-4, 2 = 4-5

[26.6] NO. SEEDS PER BOLL

[36.1] LINT PERCENT

[3.2] MM. DIAMETER

[1] Pitted: 1 = NONE, 2 = FINELY, 3 = COURSELY

[590] GRAMS SEED COTTON PER BOLL

[2] Breadth: 1 = BROADER AT BASE, 2 = BROADER AT MIDDLE

[2] Type: 1 = STORMPROOF (WESTBURN 70), 2 = STORM RESISTANT (LANKART 57), 3 = OPEN (DELTAPINE 16)

[3] Shape: 1 = LENGTH < WIDTH, 2 = LENGTH = WIDTH, 3 = LENGTH > WIDTH

16. BRACTEOLES:

[3] Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

[1] Teeth: 1 = FINE 2 = COURSE

[4] Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER (Specify) 9-11

17. YIELD: Compared to—

[ ] PERCENT *LESS* THAN .....

[50] PERCENT *MORE* THAN .....

[ ] [7] 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

[ ] SPAN LENGTH 50%

[ ] SPAN LENGTH 2.5%

[101] U.H.M. LENGTH

[ ] MEAN LENGTH

[ ] STAPLE LENGTH 32nd INCHES

[80] UNIFORMITY RATIO (MEAN/U.H.M.)

[ ] UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

[ ] 1,000 P.S.I.

[ ] ELONGATION E_1

[ ] STILOMETER T_0

[430] MICRONAIRE READING

[ ] YARN STRENGTH (Give test method) _____

[210] STILOMETER T_1

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[2] VERTICILLIUM WILT

[2] FUSARIUM WILT

[0] ROOT KNOT NEMATODE

[2] BACTERIAL BLIGHT (Race 1)

[2] BACTERIAL BLIGHT (Race 2)

[0] ASCOCHYTA BLIGHT

[1] PHYMATOTRICHUM ROOT ROT

[2] RHIZOCTONIA

[0] ANTHRACNOSE

[0] RUST

[0] OTHER (Specify) _____

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] BOLL WEEVIL

[0] APHID

[0] FLEAHOPPER

[0] LEAFWORM

[0] FALL ARMYWORM

[0] GRASSHOPPER

[0] LYGUS

[0] PINK BOLLWORM

[0] STINKBUG

[0] THRIP

[0] CUTWORM

[0] SPIDERMITE

[0] OTHER (Specify) _____

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

NOV 18 1980